

UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	PPPPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPPPP	
UUU	UUU	EEEEEEEEEEEEEEEE	TTT	PPPPPPPPPPPPPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUU	UUU	EEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	EEEEEEEEEEEEEEEE	TTT	PPP	

```
RRRRRRRR      MM      MM      SSSSSSSS  TTTTTTTTTT  EEEEEEEEEEE  SSSSSSSS  TTTTTTTTTT  5555555555
RRRRRRRR      MM      MM      SSSSSSSS  TTTTTTTTTT  EEEEEEEEEEE  SSSSSSSS  TTTTTTTTTT  5555555555
RR      RR      MMMM  MMMM  SS      SS      TT      TT      EE      SS      SS      SS      TT      55
RR      RR      MMMM  MMMM  SS      SS      TT      TT      EE      SS      SS      SS      TT      55
RR      RR      MM      MM      SS      SS      TT      TT      EE      SS      SS      SS      TT      555555
RR      RR      MM      MM      SS      SS      TT      TT      EE      SS      SS      SS      TT      555555
RRRRRRRR      MM      MM      SSSSSS      TT      TT      EEEEEEEE      SSSSSS      TT      55
RRRRRRRR      MM      MM      SSSSSS      TT      TT      EEEEEEEE      SSSSSS      TT      55
RR      RR      MM      MM      SS      SS      TT      TT      EE      SS      SS      SS      TT      55
RR      RR      MM      MM      SS      SS      TT      TT      EE      SS      SS      SS      TT      55
RR      RR      MM      MM      SS      SS      TT      TT      EE      SS      SS      SS      TT      55
RR      RR      MM      MM      SSSSSSSS  TT      TT      EEEEEEEEEEE  SSSSSSSS  TT      55
RR      RR      MM      MM      SSSSSSSS  TT      TT      EEEEEEEEEEE  SSSSSSSS  TT      555555
RR      RR      MM      MM      SSSSSSSS  TT      TT      EEEEEEEEEEE  SSSSSSSS  TT      555555
                                     ....
                                     ....
                                     ....
                                     ....

LL      I I I I I  SSSSSSSS
LL      I I I I I  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      I I I I I  SSSSSSSS
LLLLLLLLLLLL  I I I I I  SSSSSSSS
LLLLLLLLLLLL  I I I I I  SSSSSSSS
```



```
0000 65      $BEGIN RMSTEST5,009,__,RMSTEST,<TEST RECORD LOCKING>,<GBL, LONG>
0000 66
0000 67 ;
0000 68
0000 69      .ENABL  DBG
0000 70
0000 71 ;
0000 72
0000 73      $RMSDEF
0000 74      .NLIST  MEB
0000 75
0000 76 :
0000 77 : macros:
0000 78 :
0000 79
0000 80      .MACRO  BUFF NAM,SIZE
0000 81 NAM'BUF::
0000 82      .BLKB   SIZE
0000 83      NAM'BSZ==SIZE
0000 84      .ENDM   BUFF
0000 85
0000 86      .MACRO  TYPE STRING, ?L
0000 87      STORE  <STRING>
0000 88      BLBC   VERBOSITY,L
0000 89      MOVL   $$$TMPX,CMDORAB+RAB$RBF
0000 90      MOVW   $$$TMPX1,CMDORAB+RAB$RBSZ
0000 91      $PUT   RAB=CMDORAB,ERR=REPORT_ERROR
0000 92      BSBW   ERR
0000 93 L:
0000 94      .ENDM   TYPE
0000 95
0000 96
0000 97      .MACRO  WTTYPE STRING
0000 98      $WAIT   RAB=CMDORAB
0000 99      TYPE    <STRING>
0000 100     .ENDM   WTTYPE
0000 101
0000 102
0000 103     .MACRO  STORE STRING,PRE
0000 104     .SAVE
0000 105     .PSECT   __SRMSNAM
0000 106     $$$TMPX=-
0000 107     PRE
0000 108     .ASCII   %STRING%
0000 109     $$$TMPX1=-.-$$$TMPX
0000 110     .RESTORE
0000 111     .ENDM   STORE
```

; store any carriage control info

```
0000 113
0000 114
0000 115      .MACRO BEGIN TSTNAM
0000 116      STORE <TSTNAM>
0000 117      MOVL $$$TMPX,BEG_DESCR+4      : addr
0000 118      MOVL $$$TMPX1,BEG_DESCR      : len
0000 119      BSBW BEGPUT
0000 120      .ENDM BEGIN
0000 121      .MACRO FINISH TSTNAM
0000 122      STORE <TSTNAM>
0000 123      MOVL $$$TMPX,FIN_DESCR+4      : addr
0000 124      MOVL $$$TMPX1,FIN_DESCR      : len
0000 125      BSBW FINPUT
0000 126      .ENDM FINISH
0000 127      .MACRO FIELD FLDNAM
0000 128      STORE <FLDNAM>
0000 129      MOVL $$$TMPX,FLD_DESCR+4      : addr
0000 130      MOVL $$$TMPX1,FLD_DESCR      : len
0000 131      BSBW FLDPUT
0000 132      .ENDM FIELD
0000 133      .MACRO MBPT, ?L
0000 134      BLBC VERBOSITY,L
0000 135      BPT
0000 136      L:
0000 137      .ENDM MBPT
0000 138
0000 139
```



```

00000000 141 .PSECT RMSTEST,GBL, LONG
          142 .ALIGN LONG
          143 T5START::
          144 LOCK_FAB::
          145 $FAB FAC=<GET,PUT,UPD>,DNM=<TST$DISK:.FIL:1>,shr=mse,nam=namblk
          146 RAB1: $RAB FAB=LOCK_FAB,UBF=LCKBUF,USZ=LCKBSZ,RBF=LCKBUF,-
          147 RSZ=15,KBF=KEY
          148 RAB2: $RAB FAB=LOCK_FAB,UBF=LCK2BUF,USZ=LCKBSZ,-
          149 RBF=LCK2BUF,RSZ=15,ROP=ULK,KBF=KEY
          150 LCK,200
          151 LCK2,200
00000000 0268 152 KEY: .LONG 0

```

```
026C 154 RMT$TEST 5A::
026C 155 BEGIN <LOCKING TESTS>
0281 156 $OPEN FAB=LOCK_FAB,ERR=REPORT_ERROR
0292 157 BSBW ERR
0295 158 $CONNECT ERR RAB=RAB1,ERR=REPORT_ERROR
02A6 159 BSBW ERR
02A9 160 $CONNECT ERR RAB=RAB2,ERR=REPORT_ERROR
02BA 161 BSBW ERR
57 FD8F CF DE 02BD 162 MOVAL RAB1,R7 ; r7 will be addr of rab1
58 FDCE CF DE 02C2 163 MOVAL RAB2,R8 ; r8 will be addr of rab2
02C7 164
02C7 165
02C7 166 : force lots of collisions
02C7 167 : 1st stream 1 does a get (seq., so 1st record), locking it
02C7 168 : the 2nd stream asks for the same record, but fails
02C7 169 : the 1st stream releases it and the 2nd stream takes it
02C7 170 : using manual locking the 2nd stream gets the 2nd record (locking 2 records)
02C7 171 : the 1st stream asks for the 2nd record, finding it locked
02C7 172 : until the 2nd stream frees both records
02C7 173 : at which time the 1st stream takes the 2nd record
02C7 174 :
02C7 175
02C7 176 $GET RAB=R7,ERR=REPORT_ERROR ; get 1st rec., locking it
02D6 177 BSBW ERR
02D9 178 $GET RAB=R8 ; this should fail
02E2 179 CMPL R0,#RMS$_RLK
02E9 180 BEQL OK_LCK
02EB 181 FIELD <RMS RETURNED STATUS CODE>
0300 182 MOVAL RAB2,R10
0305 183 BSBW REPORT_ERR
0308 184 BSBW ERR
030B 185 OK_LCK: $RELEASE RAB=R7,ERR=REPORT_ERROR; release it
030B 186 BSBW ERR
031A 187
031D 188
031D 189
031D 190 $GET RAB=R8,ERR=REPORT_ERROR ; now get it
032C 191 BSBW ERR
032F 192 $GET RAB=R8,ERR=REPORT_ERROR ; and another
033E 193 BSBW ERR
0341 194 $GET RAB=R7 ; this should fail
034A 195 CMPL R0,#RMS$_RLK
0351 196 BEQL OK_LCK1
0353 197 FIELD <RMS RETURNED STATUS CODE>
0368 198 MOVAL RAB1,R10
036D 199 BSBW REPORT_ERR
0370 200 BSBW ERR
0373 201 OK_LCK1: $FREE RAB=R8,ERR=REPORT_ERROR ; free both records
0373 202 BSBW ERR
0382 203 $GET RAB=R7,ERR=REPORT_ERROR
0385 204 BSBW ERR ; should get it this time
0394 205 CMPL RAB$_BKT(R7),#2 ; should have been 2nd
0397 206 BEQL BKT_OK
039B 207 FIELD <BKT IN RAB (RECORD NUMBER)>
039D 208
03B2 209 BKT_OK:
```



```
03B2 211
03B2 212 :
03B2 213 : test 2
03B2 214 : one stream now, using manual locking gets a record
03B2 215 : when it tries to get it again, it succeeds with the code, already locked
03B2 216 : shifting to automatic, it gets the 2nd record (actually locking them both)
03B2 217 : so when it tries to get the 1st again, it succeeds w/ the code, already locked
03B2 218 : but this released the 2nd record, so when it tries to release the 2nd, it fails
03B2 219 :
03B2 220
03B2 221 $GET RAB=R8,ERR=REPORT_ERROR
03C1 222 BSBW ERR ; get a record
FE9A 1E A8 01 90 03C4 223 MOVB #RAB$C_KEY,RAB$B_RAC(R8); control which rec.
CF 38 A8 D0 03C8 224 MOVL RAB$L_BKT(R8),KEY ; move rec. # into key
03CE 225 $GET RAB=R8,ERR=REPORT_ERROR ; get same one
00018039 8F 50 D1 03DD 226 BSBW ERR
15 13 03E0 227 CMPL R0,#RMS$_OK_ALK ; funny success
03E7 228 BEQL OK_ALK
03E9 229 FIELD <RETURNED SUCCESS CODE>
04 A8 00040000 8F CA 03FE 230 OK_ALK: BICL #RAB$_ULK,RAB$L_ROP(R8); shift to automatic
FE5E CF D6 0406 231 INCL KEY ; get next record
FBE4' 30 0419 232 $GET RAB=R8,ERR=REPORT_ERROR
10 A7 10 A8 7D 041C 233 BSBW ERR ; get 2nd rec.,
FE43 CF D7 0421 234 ; maintaining hold on 1st
0421 235 MOVQ RAB$W_RFA(R8),RAB$W_RFA(R7); save rfa for
0425 236 ; release of 2nd
0425 237 DECL KEY ; get 1st again, making sure it
0434 238 ; was still locked
0437 239 $GET RAB=R8,ERR=REPORT_ERROR ; releasing 2nd one
00018039 8F 50 D1 0434 240 BSBW ERR
15 13 0437 241 CMPL R0,#RMS$_OK_ALK
043E 242 BEQL OK_ALK1
0440 243 FIELD <RETURNED SUCCESS CODE>
10 A8 10 A7 7D 0455 244 OK_ALK1: MOVQ RAB$W_RFA(R7),RAB$W_RFA(R8); restore rfa for release
045A 245 $RELEASE RAB=R8 ; release 2nd one
000181A0 8F 50 D1 0463 246 CMPL R0,#RMS$_RNL ; r0 = rec. not locked?
20 13 046A 247 BEQL OK_RNL
046C 248 FIELD <RMS RETURNED ERROR CODE>
5A FCOF CF DE 0481 249 MOVAL RAB2,R10
FB77' 30 0486 251 BSBW REPORT_ERR ; report error
FB74' 30 0489 252 BSBW ERR
04 A8 00040000 8F C8 048C 253 OK_RNL:
048C 254 BISL #RAB$_ULK,RAB$L_ROP(R8); back to manual
```



```
0494 256
0494 257 :
0494 258 : test 3
0494 259 : with manual locking, get 1st record, locking it
0494 260 : second user can't get it
0494 261 : update it successfully, which will not unlock it
0494 262 : so when updating it again, it will succeed because it's still manually locked
0494 263 :
0494 264
FDCF CF 01 D0 0494 265      MOVL #1,KEY ; 1st record
0499 266      $GET RAB=R8,ERR=REPORT_ERROR ; get w/ manual locking
1E A7 01 90 04A8 267      BSBW ERR
04AF 268      MOVW #RAB$C_KEY,RAB$B_RAC(R7)
000182AA 8F 50 D1 04AB 269      $GET RAB=R7 ; try to get same record
20 13 04B8 270      CMPL R0,#RMS$_RLK
04C1 271      BEQL RLK_OK
5A FB76 CF DE 04D6 272      FIELD <RMS STATUS CODE>
FB22' 30 04DB 273      MOVAL RAB1,R10
FB1F' 30 04DE 274      BSBW REPORT_ERR
04E1 275      BSBW ERR
04  A8 00040000 8F CA 04E1 276 RLK_OK: BICL #RAB$M_ULK,RAB$L_ROP(R8); switch to automatic
04E9 277      $UPDATE RAB=R8,ERR=REPORT_ERROR
FB05' 30 04F8 278      BSBW ERR
04FB 279      $FIND RAB=R8,ERR=REPORT_ERROR ; get a current record
FAF3' 30 050A 280      BSBW ERR ; this should not fail
050D 281      $UPDATE RAB=R8,ERR=REPORT_ERROR ; this should succeed
FAE1' 30 051C 282      BSBW ERR
051F 283      $RELEASE RAB=R8,ERR=REPORT_ERROR; this should not fail
FACF' 30 052E 284      BSBW ERR
0531 285
0531 286 STS_OK:
```



```

0531 288
0531 289 ;
0531 290 ; test 4
0531 291 ; asynchronously do 2 gets on records in the same bucket
0531 292 ;
0531 293 ;
04 A7 01 D0 0531 294 MOVL #RAB$M_ASY,RAB$L_ROP(R7)
04 A8 01 D0 0535 295 MOVL #RAB$M_ASY,RAB$L_ROP(R8)
FD2A CF 01 D0 0539 296 MOVL #1,KEY
053E 297 $GET RAB=R7,ERR=REPORT_ERROR ; gets 1st record
FD17 CF D6 054D 298 INCL KEY
0551 299 $GET RAB=R8,ERR=REPORT_ERROR ; gets 2nd record
0560 300 $WAIT RAB=R7
0569 301 $WAIT RAB=R8 ; wait them out
04 A8 D4 0572 302 CLRL RAB$L_ROP(R8) ; rop in r7 will be set soon
0575 303
0575 304 ;
0575 305 ; that's it for test 4
0575 306 ;
0575 307

```



```
0575 309
0575 310 :
0575 311 : test 5
0575 312 : do three tests, getting the same record with each rab
0575 313 : with no locking, supposedly.
0575 314 : 1st, set the nlk bit. then the rlk bit. and then let fac=get
0575 315 : all these should cause no locking
0575 316 :
0575 317 :
04 A7 00100000 8F D0 0575 318 MOVL #RAB$M_NLK,RAB$L_ROP(R7)
FCE6 CF 01 D0 057D 319 MOVL #1,KEY
012D 30 0582 320 BSBW GET TWO ; try to get the record twice
04 A7 00080000 8F D0 0585 321 MOVL #RAB$M_RLK,RAB$L_ROP(R7)
04 A8 00100000 8F D0 058D 322 MOVL #RAB$M_NLK,RAB$L_ROP(R8); can't try to lock record
FCCF CF D6 0595 323 INCL KEY
0116 30 0599 324 BSBW GET TWO
00018021 8F 08 A8 D1 059C 325 CMPL RAB$L_STS(R8),#RMS$_OK_RLK
15 13 05A4 326 BEQL RLK_OK2
05A6 327 FIELD <RMS SUCCESS CODE>
05BB 328 RLK_OK2:
04 A7 00010000 8F D0 05BB 329 MOVL #RAB$M_LOC,RAB$L_ROP(R7); locate mode
04 A8 00010000 8F D0 05C3 330 MOVL #RAB$M_LOC,RAB$L_ROP(R8); diito
FA46 CF 02 90 05CB 331 MOVB #FAB$M_GET,FAB$B_FAC+LOCK_FAB; only get access
05D0 332
05D0 333 :
05D0 334 : have to reopen file w/ fac=get
05D0 335 :
05D0 336 :
FA1E' 30 05D0 337 $DISCONNECT RAB=R7,ERR=REPORT_ERROR
05DF 338 BSBW ERR
05E2 339 $DISCONNECT RAB=R8,ERR=REPORT_ERROR
05F1 340 BSBW ERR
05F4 341 $CLOSE FAB=LOCK_FAB,ERR=REPORT_ERROR
0605 342 BSBW ERR
0608 343 $OPEN FAB=LOCK_FAB,ERR=REPORT_ERROR
0619 344 BSBW ERR
061C 345 $CONNECT RAB=R7,ERR=REPORT_ERROR
062B 346 BSBW ERR
062E 347 $CONNECT RAB=R8,ERR=REPORT_ERROR
063D 348 BSBW ERR
FC24 CF D7 0640 349 DECL KEY
006B 30 0644 350 BSBW GET_TWO
0647 351
0647 352 :
0647 353 : clean up
0647 354 :
0647 355 :
1E A7 00 90 0647 356 MOVB #RAB$C_SEQ,RAB$B_RAC(R7)
1E A8 00 90 064B 357 MOVB #RAB$C_SEQ,RAB$B_RAC(R8)
04 A7 D4 064F 358 CLRL RAB$L_ROP(R7)
04 A8 00040000 8F D0 0652 359 MOVL #RAB$M_ULK,RAB$L_ROP(R8)
F9B7 CF 01 C8 065A 360 BISL #FAB$M_PUT,FAB$B_FAC+LOCK_FAB
F9B2 CF 08 C8 065F 361 BISL #FAB$M_UPD,FAB$B_FAC+LOCK_FAB
0664 362
0664 363 :
0664 364 : close up
0664 365 :
```


		0664	366
		0664	367
F98A'	30	0673	368
		0676	369
F978'	30	0685	370
		0688	371
F964'	30	0699	372
		069C	373
	05	06B1	374

```

$DISCONNECT      RAB=R7,ERR=REPORT_ERROR
BSBW             ERR
$DISCONNECT      RAB=R8,ERR=REPORT_ERROR
BSBW             ERR
$CLOSE           FAB=LOCK_FAB,ERR=REPORT_ERROR
BSBW             ERR
FINISH           <LOCKING TESTS>
RSB
    
```

```
06B2 376 GET_TWO:
06B2 377
06B2 378 :
06B2 379 : subroutine to get the same record w/ two rabs
06B2 380 : and then compare the results
06B2 381 :
06B2 382
06B2 383 $GET RAB=R7,ERR=REPORT_ERROR
06C1 384 BSBW ERR
06C4 385 $GET RAB=R8,ERR=REPORT_ERROR
06D3 386 BSBW ERR
22 A8 22 A7 B1 06D6 387 CMPW RAB$W_RSZ(R7),RAB$W_RSZ(R8)
15 13 06DB 388 BEQL RSZ_OK
06DD 389 FIELD <RSZ>
28 B8 28 B7 22 A7 29 06F2 390 RSZ_OK:
15 13 06F2 391 CMPC3 RAB$W_RSZ(R7),@RAB$L_RBF(R7),@RAB$L_RBF(R8)
06F9 392 BEQL REC_OK
06FB 393 FIELD <RECORDS>
05 0710 394 REC_OK: RSB
0711 395 .END
```


\$\$PSECT_EP	= 00000000			
\$\$TAB	= 00000094	R	D	01
\$\$TABEND	= 00000008	R	D	01
\$\$TMP	= 00040000		D	
\$\$TMP1	= 00000002		D	
\$\$TMP2	= 00000058		D	
\$\$TMPX	= 000000C7	R	D	04
\$\$TMPX1	= 00000007		D	
\$\$RMSTEST	= 0000001E			
\$\$RMS_PBUGCHK	= 00000010			
\$\$RMS_TBUGCHK	= 00000008			
\$\$RMS_UMODE	= 00000004			
BEGPUT	*****		X	01
BEG_DESCR	*****		X	01
BKT_OK	000003B2	R	D	01
ERR	*****		X	01
FAB\$B_DNS	= 00000035		D	
FAB\$B_FAC	= 00000016		D	
FAB\$C_BID	= 00000003		D	
FAB\$C_BLN	= 00000050		D	
FAB\$C_SEQ	= 00000000		D	
FAB\$C_VAR	= 00000002		D	
FAB\$L_ALQ	= 00000010		D	
FAB\$L_DNA	= 00000030		D	
FAB\$L_FOP	= 00000004		D	
FAB\$M_GET	= 00000002		D	
FAB\$M_PUT	= 00000001		D	
FAB\$M_UPD	= 00000008		D	
FAB\$V_CHAN_MODE	= 00000002		D	
FAB\$V_FILE_MODE	= 00000004		D	
FAB\$V_GET	= 00000001		D	
FAB\$V_LNM_MODE	= 00000000		D	
FAB\$V_MSE	= 00000004		D	
FAB\$V_PUT	= 00000000		D	
FAB\$V_UPD	= 00000003		D	
FAB\$W_GBC	= 00000048		D	
FINPUT	*****		X	01
FIN_DESCR	*****		X	01
FLDPUT	*****		X	01
FLD_DESCR	*****		X	01
GET_TWO	000006B2	R	D	01
KEY	00000268	R	D	01
LCK2BSZ	= 000000C8		G	D
LCK2BUF	= 000001A0	RG	D	01
LCKBSZ	= 000000C8		G	D
LCKBUF	= 000000D8	RG	D	01
LOCK_FAB	00000000	RG	D	01
NAM\$CK	*****		X	01
OK_ALK	000003FE	R	D	01
OK_ALK1	00000455	R	D	01
OK_LCK	00000308	R	D	01
OK_LCK1	00000373	R	D	01
OK_RNL	0000048C	R	D	01
RAB\$B_RAC	= 0000001E		D	
RAB\$C_BID	= 00000001		D	
RAB\$C_BLN	= 00000044		D	
RAB\$C_KEY	= 00000001		D	

RAB\$C_SEQ	= 00000000		D	
RAB\$C_BKT	= 00000038		D	
RAB\$C_CTX	= 00000018		D	
RAB\$C_RBF	= 00000028		D	
RAB\$C_ROP	= 00000004		D	
RAB\$C_STS	= 00000008		D	
RAB\$M_ASY	= 00000001		D	
RAB\$M_LOC	= 00010000		D	
RAB\$M_NLK	= 00100000		D	
RAB\$M_RLK	= 00080000		D	
RAB\$M_ULK	= 00040000		D	
RAB\$V_ULK	= 00000012		D	
RAB\$W_RFA	= 00000010		D	
RAB\$W_RSZ	= 00000022		D	
RAB1	00000050	R	D	01
RAB2	00000094	R	D	01
REC_OK	00000710	R	D	01
REPORT_ERR	*****		X	01
REPORT_ERROR	*****		X	01
RLK_OK	000004E1	R	D	01
RLK_OK2	0000058B	R	D	01
RM\$S_OK_ALK	= 00018039		D	
RM\$S_OK_RLK	= 00018021		D	
RM\$S_RLK	= 000182AA		D	
RM\$S_RNL	= 000181A0		D	
RMT\$TEST_5A	0000026C	RG	D	01
RSZ_OK	000006F2	R	D	01
STS_OK	00000531	R	D	01
SYSS\$CLOSE	*****		GX	01
SYSS\$CONNECT	*****		GX	01
SYSS\$DISCONNECT	*****		GX	01
SYSS\$FIND	*****		GX	01
SYSS\$FREE	*****		GX	01
SYSS\$GET	*****		GX	01
SYSS\$OPEN	*****		GX	01
SYSS\$RELEASE	*****		GX	01
SYSS\$UPDATE	*****		GX	01
SYSS\$WAIT	*****		GX	01
TSSTART	00000000	RG	D	01

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
RMSTEST	00000711 (1809.)	01 (1.)	NOPIC USR CON REL GBL NOSHR EXE RD WRT NOVEC LONG
\$ABSS	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$RMSNAM	0000000F (15.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
__\$RMSNAM	000000CE (206.)	04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	38	00:00:00.09	00:00:00.55
Command processing	133	00:00:00.62	00:00:02.22
Pass 1	268	00:00:09.14	00:00:21.78
Symbol table sort	0	00:00:00.56	00:00:01.13
Pass 2	85	00:00:02.24	00:00:05.24
Symbol table output	12	00:00:00.09	00:00:00.21
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	541	00:00:12.78	00:00:31.17

The working set limit was 1350 pages.

49361 bytes (97 pages) of virtual memory were used to buffer the intermediate code.

There were 30 pages of symbol table space allocated to hold 573 non-local and 0 local symbols.

395 source lines were read in Pass 1, producing 49 object records in Pass 2.

40 pages of virtual memory were used to define 34 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	21
TOTALS (all libraries)	21

801 GETS were required to define 21 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSTEST5/OBJ=OBJ\$:RMSTEST5 MSRC\$:RMSTEST5/UPDATE=(ENH\$:RMSTEST5)+EXECML\$/LIB

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